

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

25. (Original) A method of identifying a developmentally competent nuclear donor cell line, the method comprising:

- (a) separating one or more cells from a cell line to provide one or more separated cells;
- (b) performing one or more nuclear transfer procedures using each of said separated cells to provide one or more nuclear transfer embryos; and
- (c) determining the developmental competence of each of said nuclear transfer embryos by comparing a plurality of nucleic acid molecules obtained from each of said embryos to a gene expression database, whereby said comparison identifies those embryos resulting from nuclear transfer of a developmentally competent nuclear donor cell.

26. (Original) A method according to claim 25, wherein said method further comprises culturing said nuclear transfer embryos prior to determining the developmental competence of each of said nuclear transfer embryos.

27. (Original) A method according to claim 25, wherein said one or more animals are one or more mammalian animals.

28. (Original) A method according to claim 27, wherein said one or more mammalian animals are one or more bovine animals.

29. (Original) A method according to claim 25, wherein said nuclear donor cell line is a transgenic nuclear donor cell line.

30. (Original) A method of producing one or more embryos by nuclear transfer procedures using a competent nuclear donor cell, the method comprising:

- (a) performing one or more nuclear transfer procedures to provide one or more nuclear transfer embryos;
- (b) culturing each of said nuclear transfer embryos to provide one or more embryos comprising at least two cells;
- (c) separating at least one cell from each of said embryos to provide one or more isolated embryonic cell populations; and
- (d) determining the developmental competence of each of said embryonic cell populations by comparing one or more nucleic acid molecules obtained from each of said embryonic cell populations to a gene expression database, whereby said comparison identifies those embryos resulting from nuclear transfer of a developmentally competent nuclear donor cell.

31. (Original) A method to assess the effect of one or more changes in a nuclear transfer protocol, the method comprising:

- (a) performing one or more nuclear transfer procedures according to a first nuclear transfer protocol to produce one or more first protocol nuclear transfer embryos;
- (b) performing one or more nuclear transfer procedures according to a second nuclear transfer protocol comprising one or more changes to said first nuclear transfer protocol, to produce one or more second protocol nuclear transfer embryos;
- (c) determining the developmental competence of each of said first protocol and second protocol nuclear transfer embryos by comparing a plurality of nucleic acid molecules obtained from each of said embryos to a gene expression database, whereby said comparison identifies those embryos; and

(d) assessing the effect of said one or more changes by comparing the developmental competence of said first protocol nuclear transfer embryos to the developmental competence of said second protocol nuclear transfer embryos.

32. (Original) A method according to claim 31, wherein said method further comprises culturing said first protocol nuclear transfer embryos and/or said second protocol nuclear transfer embryos prior to determining the developmental competence of each of said nuclear transfer embryos.

33. (Original) A method according to claim 31, wherein said nuclear transfer procedures comprise using a mammalian nuclear donor cells.

34. (Original) A method according to claim 33, wherein said mammalian nuclear donor cells are bovine nuclear donor cells.

Amendments to the Drawings:

Please substitute the attached 8 sheets (Figs. 1-7) of formal drawings for the informal drawings originally filed with the application. A separate Transmittal of Formal Drawings is submitted.

The drawing sheet or sheets attached in connection with the above-identified application containing Figures 1-7 are being presented as new formal drawing sheets to be substituted for the previously submitted drawing sheets.